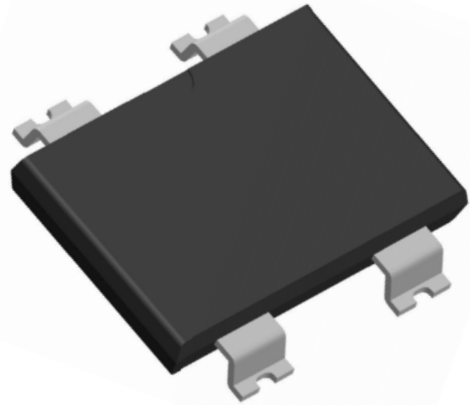




**Bridge Rectifiers**  
**Reverse Voltage-1000v**  
**Forward current-10A**

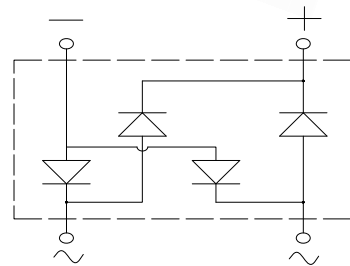
**Features**

- Glass passivated chip
- High surge current capability
- Ideal for surface mounted applications
- Low power loss, high efficiency
- Plastic Case Material has UL Flammability



**Mechanical Data**

- Package:HBS
- Terminals:Tin Plated leads, solderable per Mil-STD-750 Method 2026
- Polarity: As marked
- Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant



**Maximum Ratings (Ta=25°C Unless otherwise specified)**

Type Number	SYMBOL	HBS1010	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Rectified Current	$I_{O(AV)}$	10.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	200.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		400.0	A
Current squared time @1ms≤t.3≤ms Tj=25°C, Rating of per diode	$I^2t$	166.0	A <sup>2</sup> S
Maximum Forward Voltage at 10.0A DC	$V_{FM}$	1.1	V
Maximum Reverse Current TA = 25°C	IR	5	uA
at Rated DC Blocking Voltage TA = 125°C		100	
Typical Thermal Resistance	$R_{QJa}$	75.0	°C/W
Operating Junction Temperature Range	$T_J$	-55to+150	°C
Storage Temperature Range	$T_{STG}$	-55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

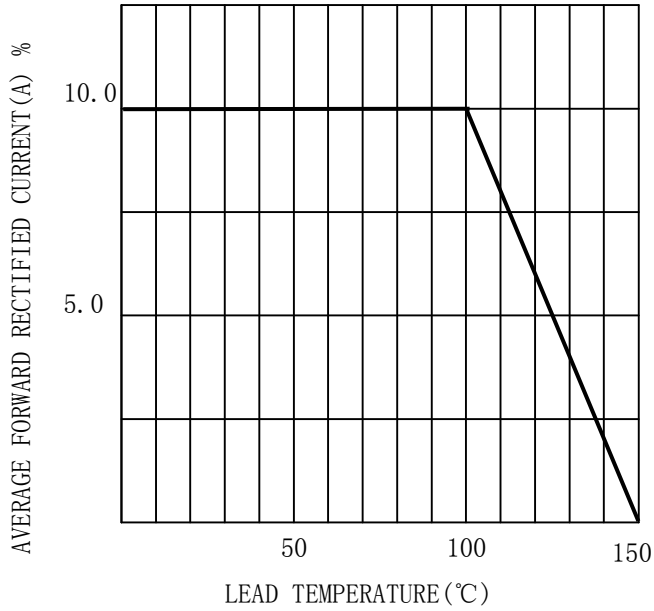


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

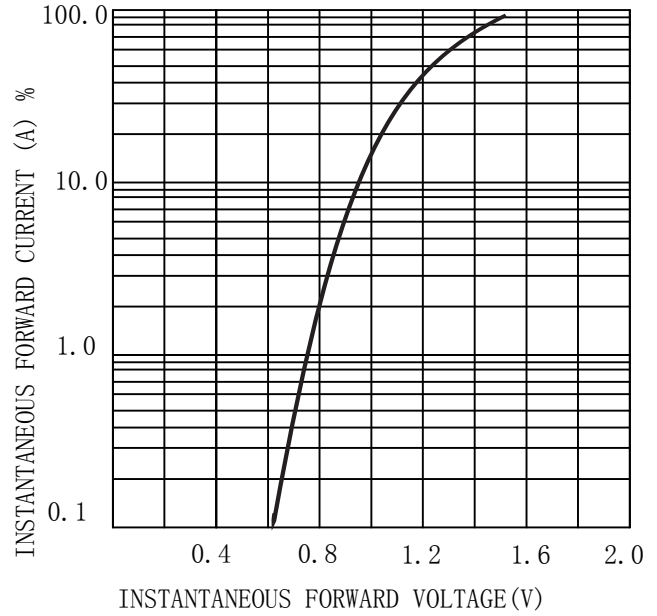


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

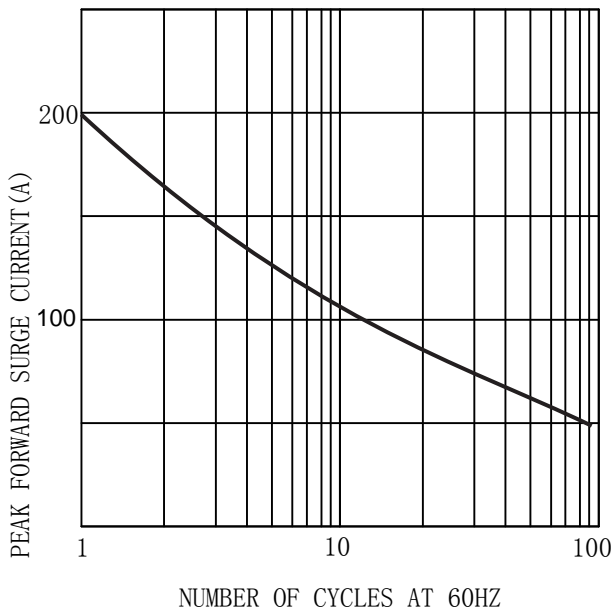
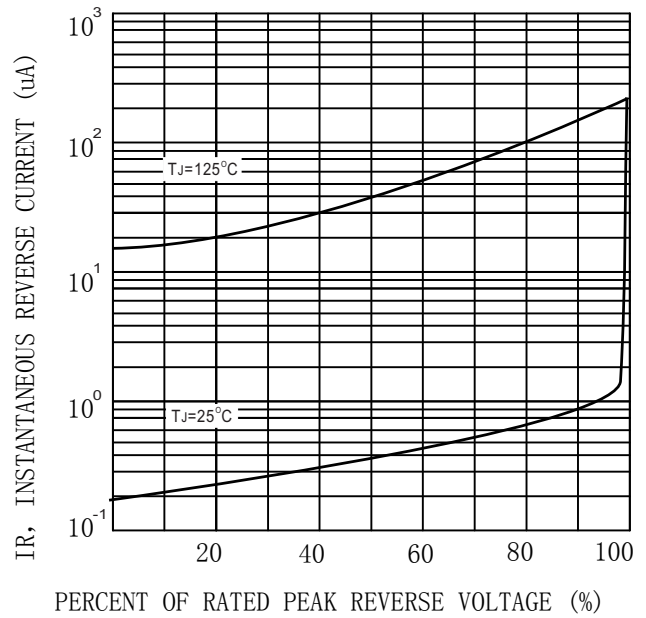
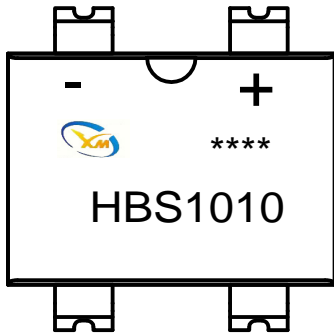



FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





## MARKING INFORMATION

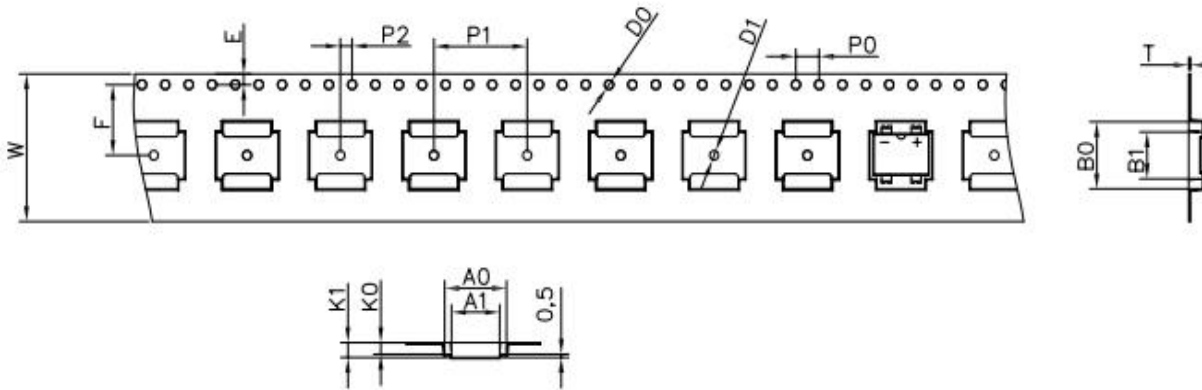


 = Logo  
 \*\*\*\* = Date Code Marking  
 HBS1010 = Marking Code

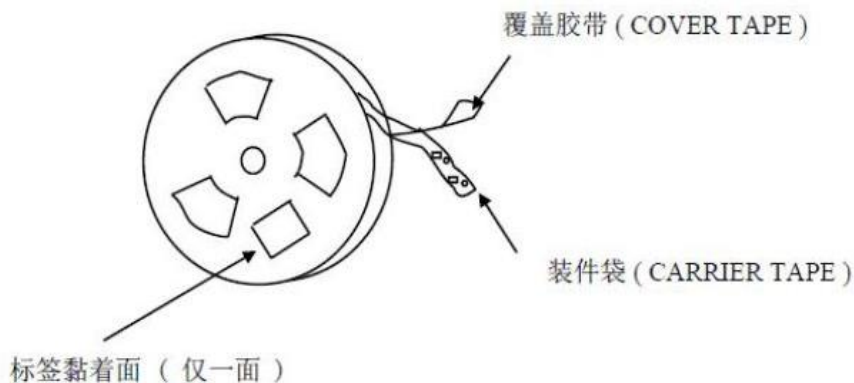
Print according to customer request

## PACKING REQUIRMENTS

- Carrier tape packing



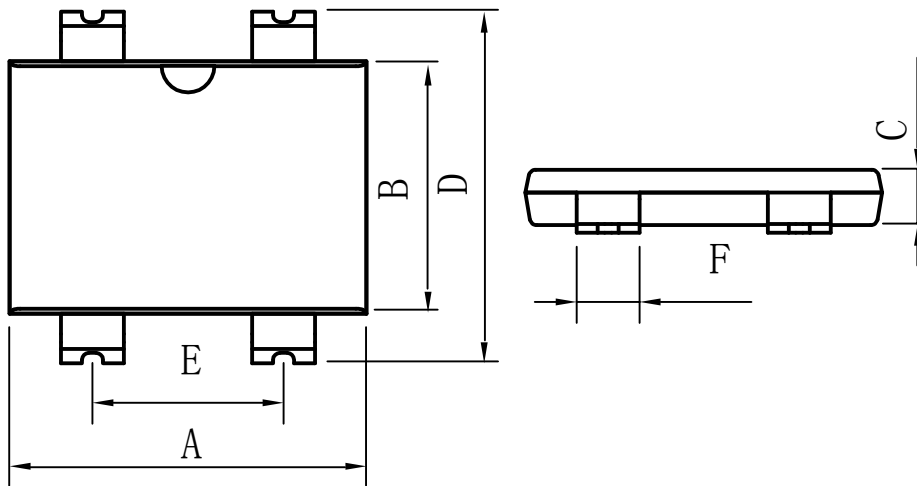
Specifications	Carrier tape type	Ao	A1	BO	B1	KO	K1	Po	W	t	Explain
HBS	DIM	10.6	8.3	10.9	7.6	1.9	2.4	4.0	16.0	0.3	
	TOLE	±0.2	±0.2	±0.2	±0.2	±0.1	±0.1	±0.1	±0.2	±0.05	



DEVICE TYPE	Units/Reel	Tubes/ Inner Box	Units/ Inner Box	Inner Box/ Carton Box	Units/ Carton Box
HBS	1500	1	1500	10	15000



## Outline Dimensions



HBS				
DIM	INC HES		MM	
	MIN	MAX	MIN	MAX
A	0.39	0.41	10.0	10.4
B	0.28	0.29	7.0	7.4
C	0.06	0.07	1.4	1.7
D	0.38	0.40	9.7	10.2
E	0.21	0.22	5.3	5.7
F	0.07	0.08	1.7	2.0



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